

MATERIAL SAFETY DATA SHEET

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2500 Screen Wash

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This Material Data Safety Sheet (MSDS) contains toxicology, industrial hygiene and environmental information for your employees. Please make sure they are provided with this information. It also contains information to assist with meeting community right-to-know and emergency response reporting requirements under SARA title III and other laws. If you resell this product, provide the buyer with this MSDS or incorporate this information into a new MSDS. Disregard any previous edition of this MSDS. This MSDS was prepared according to the OSHA Hazard Communication Standard (29 CFR §1910.1200) and the ANSI MSDS Standard (ANSI Z400.1) by Hazard Information Services, 8100 34th Ave South, P.O. Box 1309, MPLS, MN 55440-1309.

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: 2500 Screen Wash

CHEMICAL NAME: Mixture

RESPONSIBLE PARTY: Northwest Screen Systems Co.

4204 East Lake Street

Minneapolis, MN 55406

USA

TELEPHONE NUMBERS

PRODUCT INFORMATION(8-5 CT): Northwest Screen Systems Co.

(612) 729-7365 or 800-221-4079

ALL EMERGENCIES (24 HR):

Infotrac

800-535-5053

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Mixture: NJ TSRN: 411411260-5006P

The exact identity of the ingredient(s) are being withheld because they are considered a trade secret. The hazards associated with these ingredients are addressed in this document. For specific information on these trade secret ingredients, assistance or information on the management of exposures or spills, or safety assessments, please call 1-800-535-5053, 24 hours a day.

SECTION 3 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE AND ODOR: Amber liquid with mild alcohol odor with sweet edge.

STATEMENT OF HAZARD: WARNING!

ACUTE HAZARDS

- * May cause moderate-severe eye irritation, blurred vision, and transient corneal injury
- * May cause moderate skin irritation
- * May cause central nervous system depression

CHRONIC HAZARDS

- * May cause skin sensitization
- * May cause dermatitis
- * Contains suspected animal carcinogen

NFPA RATING: Health-2 Flammability-2 Reactivity-0 Special- NDA

HMIS RATING: Health-2 Flammability-2 Reactivity-0 Protect. Equip-x

NFPA and HMIS ratings are assigned by Hazard Information Services based on criteria published by the National Fire Protection Association and the National Paint & Coatings Association respectively, and should only be interpreted by persons trained in these rating systems.

ROUTES OF ENTRY

- * Eye contact may cause moderate to severe eye irritation, blurred vision, and transient corneal injury.
- * Skin contact- Skin contact with extremely large amounts may result in adverse systematic effects
- * Ingestion
- * Inhalation

POTENTIAL HEALTH EFFECTS

The degree of injury will depend upon exposure dose and speed and thoroughness of first aid treatment

ACUTE EFFECTS

Local Effects (eyes, skin, nose, throat, stomach, etc...)

- * May cause moderate to severe eye irritation, blurring
- * May cause moderate skin irritation

Systematic Effects

- * May cause abdominal pain, vomiting, diarrhea and central nervous system depression
- * Contact with extremely large amounts may result in adverse systematic effects

SUB-CHRONIC EFFECTS

- * NDA

NON-CARCINOGENIC CHRONIC EFFECTS

- * Repeated or prolonged skin contact with extremely large amounts may result in the absorption of harmful amounts
- * May cause dermatitis
- * May cause skin sensitization
- * May cause adverse kidney effects
- * May cause adverse liver effects

REPRODUCTIVE OR DEVELOPMENTAL EFFECTS

- * None of the components of this product are listed on the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 (proposition 65) list of chemicals known to cause reproductive toxicity

CANCER

- * The components of this product are not listed as carcinogens or potential carcinogens by NTP, IARC or OSHA (see 29 CFR §1910.1200(g)(2)(vii).
- * None of the components of this product are listed on the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 (proposition 65) list of chemicals known to cause CANCER
- * D-limonene (CAS#5989-27-5) has shown evidence of carcinogenicity in animal studies conducted by the National Toxicology Program (NTP)
- * IARC has determined that D-limonene (CAS#5989-27-5) is not classifiable as to its carcinogenicity based on inadequate evidence in both experimental animals and humans (IARC Group 3).

TARGET ORGANS

- * All tissues (irritation)

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- * Central nervous system
- * Kidneys
- * Liver

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

- * Eye and skin disorders

SECTION 4 - FIRST AID

For assistance with medical emergencies contact Infotrac at 1-800-535-5053, 24 hours a day.

EYE CONTACT

- * Immediately flush with plenty of water
- * Remove contact lenses and continue flushing for at least 20 minutes
- * Seek medical attention

SKIN CONTACT

- * Remove contaminated clothing
- * Flush affected area with water for at least 15 minutes
- * Flush affected area with mild soap and water
- * Seek Medical attention if symptoms develop and persist

INGESTION

- * Immediately rinse mouth out with plenty of water
- * If within 30 minute after ingestion, give a small glass of water (NEVER give anything by mouth to an unconscious person)
- * Do not induce vomiting unless instructed to do so by a physician or poison control center
- * Seek medical attention immediately

INHALATION

- * Remove to fresh air
- Seek medical attention if breathing becomes difficult or symptoms develop

NOTES TO PHYSICIANS

- * Contact Hazard Information Services for assistance with the management of exposure to this product

SECTION 5 - FIRE FIGHTING MEASURES

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Flash Point and Method: 145F (293C) Closed Cup

Flammable Limits: NDA

Auto Ignition Temperature: NDA

GENERAL HAZARD

- * Keep away from sparks, heat, or open flame
- * Vapors may form an explosive mixture with air
- * Vapors may travel to source of ignition and flash back
- * Vapors may be heavier than air and may collect along the ground and in low or confined areas (sewers, basements, tanks).
- * Run off to sewer may create a fire or explosion hazard

EXTINGUISHING MEDIA

- * Use water fog, carbon dioxide or dry chemical

FIRE FIGHTING INSTRUCTIONS

- *Wear appropriate protective clothing
- * Use self contained breathing apparatus
- * Do not spray pool fires or containers of hot burning liquid
- * A direct stream of water or foam into the fire may cause frothing which can be violent and increase fire
- * Water spray may be used to cool fire exposed containers

HAZARDOUS COMBUSTION PRODUCTS

- * Carbon monoxide (CO)
- * Carbon Dioxide (CO₂)

SENSITIVITY OF EXPLOSION BY MECHANICAL CONTACT

- * NDA

SENSITIVITY OF EXPLOSION BY STATIC DISCHARGE

- * NDA

SECTION 6 - ACCIDENTAL RELEASE MEASURES

For assistance with accidental releases call Infotrac at 1-800-535-5053, 24 hours a day.

GENERAL

- * Do not attempt to clean up chemical spills without appropriate personal protective equipment (see section 8)
- * Eliminate or remove all ignition sources (no smoking, flares, sparks or flames in immediate area)
- * Do not touch or walk through spilled material
- * Use clean, non-sparking tools to collect absorbed material
- * A vapor suppressing foam may be used to reduce vapors
- * For small spills, take up with earth, sand, and other noncombustible absorbent material and place into sealable containers for later disposal
- * For large spills, dike far ahead for later disposal
- * Water spray may reduce vapor, but may not prevent ignition in closed spaces
- * Keep waste out of sewers, watersheds, and waterways
- * See section 13 for information on the disposal of recovered material

REPORTABLE QUANTITIES (RQ)

- * None

SECTION 7 - HANDLING AND STORAGE

Storage temperature: Ambient

Storage pressure: Atmospheric

GENERAL

- * Use with adequate ventilation
- * Store away from incompatible materials (see section 10)
- * Store in a cool, dry, well ventilated area out of direct sunlight
- * Use with proper personal protective equipment (see section 8)
- * Empty containers may retain hazardous properties, follow all MSDS/label warnings even after container is emptied
- * Do not reuse empty container for food, clothing, or products for human or animal consumption
- * Keep this and all chemicals out of reach of children

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

- * Ensure adequate ventilation

PERSONAL PROTECTION

RESPIRATOR

- * Under normal use and in the presence of adequate ventilation, no respiratory protection is necessary
- * If ventilation is inadequate, or if an exposure limit in Section 2 for the product or any component is exceeded, the use of an approved air purifying respirator may be necessary
- * Seek professional advice prior to respirator selection and use
- * Follow OSHA respirator regulations (29 CFR §1910.134)
- * If there is a potential for an uncontrolled release, or exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection, use a positive pressure air supplied respirator.

EYE PROTECTION

- * Wear safety glasses with side shields (or goggles)

PROTECTIVE CLOTHING

- * Prevent skin contact by wearing chemically resistant gloves, apron, impervious clothing and boots

SAFETY EQUIPMENT

- * Eyewash fountain
- * Safety shower

GENERAL

- * Use good personal and industrial hygiene practices
- * Wash thoroughly after using product
- * Keep product off of clothing and equipment
- * Launder contaminated clothing before re-use
- * Do not eat, drink or smoke in any work area
- * It is always good industrial hygiene practice to limit, to the extent feasible, skin and eye contact and inhalation of chemical products

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Appearance: Amber

Odor: Mild alcohol with sweet edge

Vapor pressure: NDA

Vapor density (air=1): NDA

Evaporation rate (n-butyl acetate=1): NDA

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Percent volatile by volume: NDA

Freezing point: NDA

Melting point: NDA

Boiling point: NDA

Viscosity: NDA

Specific gravity: NDA

Bulk density: NDA

Solubility: NDA

pH: NDA

SECTION 10 - STABILITY AND REACTIVITY

GENERAL

* This product will not polymerize. This product is stable under normal conditions.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID

- * Strong acids
- * Strong alkalis
- * Strong oxidizers
- * Avoid contact with metals
- * Always test the compatibility of materials before mixing or storing together

HAZARDOUS DECOMPOSITION PRODUCTS

- * Carbon monoxide (CO)
- * Carbon dioxide (CO₂)

SECTION 11 TOXICOLOGICAL INFORMATION

This section provides relevant information with regard to any toxicity studies performed on the product, or "pure" form of the component(s). This information can be subject to misinterpretation. Therefore, it is essential that the following information be interpreted by individuals trained in its evaluation. For assistance with interpreting this information, contact Infotrac at 1-800-535-5053, 24 hours a day.

PRODUCT BASED

* The exact ingredients of this product are considered proprietary. Exposure can occur by skin contact, eye contact, ingestion, or inhalation of mists or vapors. Skin contact with this product is expected to cause moderate (possibly severe) irritation with discomfort and possibly a rash. A minor component of this product (<10% wt/wt of the product) has been shown to cause skin sensitization. Repeated or prolonged contact may cause dermatitis. Prolonged or widespread exposure to extremely large amounts may result in the absorption of harmful amounts. Eye contact is expected to cause moderate to severe irritation with discomfort, tearing, and blurring of vision. Transient corneal injury is also possible. Overexposure to a main component of this product (>55% wt/wt of the product) by skin contact or inhalation has also resulted in blurring of vision. Ingestion is expected to cause irritation to the mouth, throat, esophagus and stomach with symptoms such as abdominal pain, vomiting and diarrhea. Repeated ingestion of a main component of this product (<55% wt/wt of the product) resulted in weight loss in animal studies. Inhalation of mists or vapors is expected to cause upper respiratory tract irritation with symptoms such as coughing and nasal discharge as well as rapid breathing (tachypnea). Repeated inhalation of a main component of this product (<55% wt/wt of the product) caused decreased body weights, relative and absolute decreases in liver weights, and degeneration of nasal tissues in animal studies. Overexposure to this product may result in central nervous system depression. Overexposure to a moderate component of this product (<24% wt/wt of the product) resulted in adverse liver, kidney, spleen and testicular effects in animal studies. Two components of this product are an aspiration hazard (<13% wt/wt of the product). It is unknown if this product is an aspiration hazard. The two main components of this product (<77% wt/wt of the product) did not produce adverse developmental effects in animal studies. There were no data located addressing potential reproductive effects following exposure to the two main components of this product (<77% wt/wt of the product). The national Toxicology Program (NTP) has found clear evidence of carcinogenicity in male rats exposure to D-limonene. IARC has determined that D-limonene is not classifiable as to its carcinogenicity based on inadequate evidence in either experimental animals or humans (IARC Group 3). There was no data available addressing the potential reproductive, developmental or carcinogenic effects in humans following exposure to this product.

SECTION 12 - ECOLOGICAL INFORMATION

*NDA

SECTION 13 - DISPOSAL INFORMATION

GENERAL

- Consult a local expert for advise on the disposal of this material
- Characteristics of recovered material may differ from those of original material
 - Ensure that disposal is in compliance with local, state, and federal regulations

SECTION 14 - TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Not considered a hazardous material

SECTION 15 - REGULATORY INFORMATION

CHEMICAL INVENTORIES

- * With the following exception, all components of this product are included on the TSCA inventory list, the DSL?NDSL, and the EINECS
- * Polyethylene glycol dimethyl ether (CAS#24991-55-7) and Nonylphenol + 9 EO polyethoxylate (CAS#9016-45-9) are not listed on the EINECS.

REPORTABLE QUANTITIES (RQ)

- * None

SARA TITLE III (Superfund Amendments and Reauthorization Act)**§302 Extremely Hazardous Materials**

- * None

§304 Notification of Accidental Release

- * None

§311/312 Hazard Categories

Immediate (acute) Health Effects: YES

Delayed (chronic) Health Effects: YES

Fire Hazard: NO

Sudden Release of Pressure Hazard: NO

Reactivity Hazard: NO

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§313 Toxic Chemical Release Reporting

* None

STATE REGULATORY INFORMATION

* Since each state has the authority to promulgate standards more stringent than the federal government, this section cannot provide an inclusive list of all states regulations which apply to this product. Questions related to state regulations should be directed toward local officials or Northwest Screen Systems Co. at (612) 729-7365

SECTION 16- OTHER INFORMATION

REVISION SUMMARY

ISSUE DATE: 8/5/98

SUPERSEDES: NONE

REASON FOR ISSUE: NEW MSDS

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